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11 January 1973

COMPUTER SECURITY SUBCOMMITTEE

OF THE

UNITED STATES INTELLIGENCE BOARD

SECURITY COMMITTEE

MEMORANDUM FOR: All Computer Security Subcommittee Members

SUBJECT : Proposed USIB Policy Paper on Computer Security

1. Attached is a proposed outline for a computer security policy document for the Intelligence Community. The outline was developed by the Army Member of the Computer Security Subcommittee as requested at the 1 December 1972 meeting.

2. This outline will be a discussion item on the agenda of the 19 January 1973 Subcommittee meeting.

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Chairman
Computer Security Subcommittee

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PROPOSED OUTLINE
IC COMPUTER SECURITY POLICY

I. PURPOSE

II. APPLICATION AND SCOPE (All computer systems, government and contractor, which process compartmented intelligence).

III. DEFINITIONS (terms defined in Enclosure 1).

IV. POLICY

A. OPTIONS FOR PROCESSING COMPARTMENTED INFORMATION (all systems in a controlled Top Secret environment).

1. SYSTEM DEDICATION

a. PERMANENT

b. TEMPORARY

(1) Hardware isolation/disconnect procedures.

(2) Equipment sanitization procedures.

2. COMPARTMENTED MODE

a. SYSTEMS MEETING SECURITY REQUIREMENTS

b. SYSTEMS REQUIRING EXCEPTIONS/WAIVERS

B. NETWORKS

V. SECURITY REQUIREMENTS

A. PERSONNEL SECURITY

1. APPOINTMENT OF SECURITY OFFICALS

a. ADP SYSTEMS SECURITY MANAGER/OFFICER

b. OTHERS (if required):

(1) COMPUTER CENTER SECURITY OFFICER

(2) TERMINAL AREA SECURITY OFFICERS

2. CLEARANCE AND ACCESS REQUIREMENTS

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a. COMPUTER CENTER PERSONNEL

b. TERMINAL USER PERSONNEL

c. OTHERS (Vendors, maintenance personnel)

3. SECURITY TRAINING (initial and ongoing individual security responsibilities).

B. PHYSICAL SECURITY (computer center and terminal sites).

C. COMMUNICATIONS LINKS

D. EMANATIONS SECURITY

E. HARDWARE/SOFTWARE CONTROLS

1. MEMORY PROTECTION

2. SEPARATION OF DATA BY AND WITHIN STORAGE MEDIUM

3. PROTECTION STATE VARIABLES (Variables in execution state of a processor)

4. SECURITY LABELS

5. USER IDENTIFICATION/AUTHENTICATION (including terminal control routines which report all unauthorized attempts to access information).

6. PRIVILEGED INSTRUCTIONS (restricted to operating system)

7. SEPARATION OF USER/EXECUTIVE MODES

8. RESIDUE CLEAN OUT

9. ACCESS CONTROLS

10. AUDIT TRAIL CAPABILITY

F. ADMINISTRATIVE AND PROCEDURAL SAFEGUARDS (e.g. maintenance of access lists, review of audit trails.)

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VI. ACCREDITATION PROCEDURES

a. ANALYSIS OF INDIVIDUAL ADP SYSTEM SECURITY REQUIREMENTS.

B. PLANNING AND INSTALLATION OF SECURITY SYSTEM.

C. IN-HOUSE TEST AND EVALUATION OF SECURITY SYSTEM.

D. ACCREDITATION REQUEST TO USIB MEMBER.

E. USIB MEMBER DECISION TO ACCREDIT BASED ON EVALUATION OF:

1. OPERATIONAL REQUIREMENTS OF ADP SYSTEM.

2. COMPROMISING EMANATIONS SECURITY INSPECTION AND TEST REPORTS.

3. COMMUNICATIONS SECURITY MEASURES IN EFFECT.

4. THE EFFECTIVENESS OF PERSONNEL, PHYSICAL, PROCEDURAL AND HARDWARE/SOFTWARE SAFEGUARDS IMPLEMENTED IN THE ADP SYSTEM.

F. PERIODIC REVIEW/AUDIT OF ADP SYSTEM SECURITY AFTER ACCREDITATION.

INCLOSURES

1. DEFINITIONS

2. ERASE AND DECLASSIFICATION PROCEDURES

a. MAGNETIC TAPES

b. MAGNETIC DISCS, DISC PACKS, DRUMS

c. INOPERATIVE MAGNETIC DISCS, DISC PACKS, DRUMS

d. INTERNAL MEMORY

e. TRANSMISSION CONTROL DEVICES

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f. TERMINAL EQUIPMENT (e.g. CRT's, TTY)

g. OTHER PERIPHERAL EQUIPMENT

3. DEGAUSSING EQUIPMENT SPECIFICATIONS

4. SECURITY TEST AND EVALUATION PROCEDURES

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